

Title (en)

CONDUCTIVE MEMBER, CONDUCTIVE ROLLER, AND IMAGE FORMING DEVICE

Title (de)

LEITFÄHIGES ELEMENT, LEITFÄHIGE WALZE UND BILDERZEUGUNGSVORRICHTUNG

Title (fr)

ÉLÉMENT CONDUCTEUR, ROULEAU CONDUCTEUR ET DISPOSITIF DE FORMATION D'IMAGES

Publication

**EP 3187939 B1 20180509 (EN)**

Application

**EP 15835857 A 20150803**

Priority

- JP 2014176197 A 20140829
- JP 2015003910 W 20150803

Abstract (en)

[origin: EP3187939A1] This disclosure is to provide a conductive member capable of obtaining a desired electrical resistance initial value and simultaneously suppressing increase of the electrical resistance value due to continuous energization, a conductive roller comprising an elastic layer formed with the conductive member, and an image forming device using the conductive roller. The conductive member of this disclosure is formed of a UV cure resin obtained by curing under ultraviolet ray radiation a composition containing a urethane (meth)acrylate oligomer (A), a photo polymerization initiator (B) and an ionic conductive agent (C), wherein: the ionic conductive agent (C) contains an organic boron complex salt and a compound having a structure expressed with the following general formula(1), and a compounding amount of the organic boron complex salt is 0.2 parts by mass or more per 100 parts by mass of a curing component in the composition. #####-SO<sub>2</sub>-NX-SO<sub>2</sub>-#####(1) (In the general formula (1), X represents an alkali metal.)

IPC 8 full level

**G03G 15/02** (2006.01); **C08F 2/50** (2006.01); **G03G 15/00** (2006.01); **G03G 15/08** (2006.01); **G03G 15/16** (2006.01)

CPC (source: EP US)

**C08F 2/50** (2013.01 - EP US); **C08F 222/1065** (2020.02 - EP US); **C08K 5/435** (2013.01 - US); **C08K 5/55** (2013.01 - US); **C09D 5/24** (2013.01 - US); **C09D 135/02** (2013.01 - US); **G03G 15/0233** (2013.01 - EP US); **G03G 15/0818** (2013.01 - EP US); **G03G 15/162** (2013.01 - EP US); **G03G 15/1685** (2013.01 - EP US); **C08K 2201/001** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3187939 A1 20170705**; **EP 3187939 A4 20170726**; **EP 3187939 B1 20180509**; CN 106796408 A 20170531; CN 106796408 B 20200612; JP 2016051054 A 20160411; JP 6302799 B2 20180328; US 10466610 B2 20191105; US 2017242361 A1 20170824; WO 2016031145 A1 20160303

DOCDB simple family (application)

**EP 15835857 A 20150803**; CN 201580046632 A 20150803; JP 2014176197 A 20140829; JP 2015003910 W 20150803; US 201515503616 A 20150803